

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 5, 7, 10, 12, 16, 17 and 19 as follows:

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cont

1. (Currently Twice Amended) An apparatus, comprising:
an inputting device inputting a display data channel of a monitor into a computer;
a driving device driving the inputting device with a predetermined electric signal;
an interfacing section indicating whether the display data channel of the monitor is inputted into the computer and outputting ~~the same~~ a voltage signal as an initial reflective of an originally inputted voltage signal, the outputted voltage signal is switched at a different time according to a result of inputting the display data channel; and
a controller for controlling the driving device by generating the predetermined electric signal, for analyzing the output signal from the interfacing section, and for determining whether or not the result of inputting the display data channel is correct.

2. (Previously Amended) An apparatus as claimed in claim 1, wherein the inputting device includes a mouse.

3. (Previously Amended) An apparatus as claimed in claim 1, wherein the inputting device includes a scanner.

4. (Previously Amended) An apparatus as claimed in claim 1, wherein the controller for the

controlling and determining includes a programmable logic controller.

5. (Currently Amended Three Times) An apparatus, comprising:

an inputting device inputting a display data channel of a monitor into a computer;

a driving device driving the inputting device with a predetermined electric signal;

an interfacing section indicating whether the display data channel of the monitor is inputted into the computer and outputting ~~the same~~ a voltage signal ~~as an initial~~ reflective of an originally inputted voltage signal, the outputted voltage signal which is switched at a different time according to a result of inputting the display data channel; and

a controller for controlling the driving device by generating the predetermined electric signal, for analyzing the output signal from the interfacing section, and for determining whether or not the result of inputting the display data channel is correct,

wherein the interfacing section comprises:

a Zener diode connected with a pin of the display data channel, the display data channel connects the computer and the monitor;

a transistor having a base connected to an output terminal of the Zener diode and being turned-on and turned-off according to a presence of the display data channel;

a relay including a relay coil magnetized when the transistor is turned-on and a first and second relay switches turned-on when the transistor is turned-off; and

a light emitting diode for emitting light when the first relay switch is turned-on to identify the inputting of the display data channel.

1 6. (Previously Amended) An apparatus as claimed in claim 1, wherein the inputting device
2 includes a mouse and a scanner and further comprises a switch to select one of the mouse and the
3 scanner.

1 7. (Currently Amended Three Times) An apparatus, comprising:
2 an inputting device inputting a display data channel of a monitor into a computer;
3 a driving device driving the inputting device with a predetermined electric signal;
4 an interfacing section indicating whether the display data channel of the monitor is inputted
5 into the computer and outputting ~~the same~~ a voltage signal ~~as an initial~~ reflective of an originally
6 inputted voltage signal, the outputted voltage signal which is switched at a different time according
7 to a result of inputting the display data channel; and

8 a controller for controlling the driving device by generating the predetermined electric signal,
9 for analyzing the output signal from the interfacing section, and for determining whether or not the
10 result of inputting the display data channel is correct,

11 wherein after the display data channel is inputted into the computer and the interfacing
12 section outputs a high frequency signal, the controller determines that the display data channel is
13 normally inputted into the computer if the interfacing section outputs the same signal as the initial
14 signal at a first time, and after the interfacing section continues to output the high frequency signal
15 for a predetermined times after the first time, the controller determines that the display data channel
16 is abnormally inputted into the computer if the interfacing section outputs the same signal as the

17 initial signal at a second time.

1 8. (Previously Amended) An apparatus as claimed in claim 7, wherein the first time is in a
2 range of 750 milliseconds to 1.5 seconds, and the second time is in a range of 3.5 seconds to 4.5
3 seconds.

1 9. (Previously Amended) An apparatus as claimed in claim 7, wherein when the display data
2 channel is abnormally inputted into the computer, the controller for the controlling and determining
3 raises an alarm by an alarm generating device.

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2 10. (Currently Amended Three Times) An apparatus, comprising:
3 an inputting device inputting a display data channel of a monitor into a computer;
4 a driving device driving the inputting device with a predetermined electric signal;
5 an interfacing section indicating whether the display data channel of the monitor is inputted
6 into the computer and outputting ~~the same a~~ voltage signal ~~as an initial~~ reflective of an originally
7 inputted voltage signal, ~~the outputted voltage signal which~~ is switched at a different time according
8 to a result of inputting the display data channel; and
9 a controller for controlling the driving device by generating the predetermined electric signal,
10 for analyzing the output signal from the interfacing section, and for determining whether or not the
11 result of inputting the display data channel is correct,
wherein the driving device includes a relay switch, the relay switch is in parallel connection

12 to a contact point for inputting the display data channel of the inputting device and the relay coil
13 magnetized by the predetermined electric signal to operate the relay switch.

1 11. (Previously Amended) An apparatus as claimed in claim 10, wherein after a controlling
2 and detecting signal for the monitor is supplied, the controller for the controlling and detecting
3 magnetizes the relay coil and turns-on the relay switch at a predetermined time thereafter to input
4 the display data channel into the monitor.

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3 12. (Currently Twice Amended) A method, comprising:
inputting a display data channel to a monitor by an inputting device;
driving said inputting device with a predetermined electric signal by a driving device;
4 indicating whether said display data channel of said monitor is inputted into said computer
5 and outputting a signal according to a result of said inputting by an interfacing section, said
6 interfacing section outputting ~~the same a~~ voltage signal ~~as an initial~~ reflective of an originally
7 inputted voltage signal, the outputted voltage signal which is switched at a different time according
8 to a result of inputting the display data channel;
9 controlling said driving device by generating said predetermined electric signal;
10 analyzing said output signal from said interfacing section; and
11 determining whether said result of said inputting said display data channel is correct.

1 13. (Previously Presented) A method as claimed in claim 12, with said inputting device

2 including a mouse.

1 14. (Previously Presented) A method as claimed in claim 12, with said inputting device
2 including a scanner.

1 15. (Previously Presented) A method as claimed in claim 12, with said controlling and
2 determining including a programmable logic controller.

CM 16. (Currently Amended Three Times) A method, comprising:

2 inputting a display data channel to a monitor by an inputting device;

3 driving said inputting device with a predetermined electric signal by a driving device;

4 indicating by an interfacing section, whether said display data channel of said monitor is
5 inputted into said computer and outputting by said interfacing section, a signal according to a result
6 of said inputting said display data channel ~~by an interfacing section~~;

7 controlling said driving device by generating said predetermined electric signal;

8 analyzing said output signal from said interfacing section; and

9 determining whether said result of said inputting said display data channel is correct,

10 with said controlling and determining including a programmable logic controller,

11 with said programmable logic controller magnetizes a relay coil of said driving device and
12 turns-on a relay switch of said driving device to input said display data channel to said monitor.

1 17. (Currently Twice Amended) A method, comprising:
2 inputting a display data channel to a monitor by an inputting device;
3 driving said inputting device with a predetermined electric signal by a driving device;
4 indicating whether said display data channel of said monitor is inputted into said computer
5 and outputting a signal according to a result of said inputting said display data channel by an
6 interfacing section;
7 controlling said driving device by generating said predetermined electric signal;
8 analyzing said output signal from said interfacing section; and
9 determining whether said result of said inputting said display data channel is correct,
10 with said interfacing section comprising:
11 connecting a Zener diode between a display data channel pin and a transistor of said
12 interfacing section;
13 turning on and off a transistor according to a presence of said display data channel connecting
14 said transistor having a base to an output terminal of said Zener diode;
15 magnetizing a coil of a relay when the transistor is turned-on and first and second relay
16 switches turned-on when said transistor is turned-off; and
17 emitting light by a light emitting diode when said first relay switch is turned-on to identify
18 said inputting of said display data channel.

1 18. (Previously Amended) A method as claimed in claim 17, with said inputting device
2 including a mouse and a scanner and further comprising a switch to select one of said mouse and said

3 scanner.

1 19. (Currently Twice Amended) A method, comprising:
2 inputting a display data channel to a monitor by an inputting device;
3 driving said inputting device with a predetermined electric signal by a driving device;
4 indicating whether said display data channel of said monitor is inputted into said computer
5 and outputting a signal according to a result of said inputting said display data channel by an
6 interfacing section;

7 controlling said driving device by generating said predetermined electric signal;
8 analyzing said output signal from said interfacing section; and
9 determining whether said result of said inputting said display data channel is correct,
10 with said determining step determines that said display data channel is normally input into
11 said computer if said interfacing section outputs a same high frequency signal as originally input as
12 said predetermined electric signal at a first time; and
13 said determining step determines that said display data channel is abnormally input into said
14 computer after said interfacing section continues to output said high frequency signal at a second
15 time.

1 20. (Previously Presented) A method as claimed in claim 19, with said first time being in a
2 range of 750 milliseconds to 1.5 seconds, and said second time is in a range of 3.5 seconds to 4.5
3 seconds.